

SEQUENCE LISTING

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Havenith, Karin
Parren, Paul
van de Winkel, Jan
Williams, Denise Leah
Jorgen Petersen
Ole Baadsgaard

<120> HUMAN MONOCLONAL ANTIBODIES AGAINST CD25

<130> GMI-059

<150> 60/426690

<151> 2002-11-15

<160> 61

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 381

<212> DNA

<213> Homo sapiens

<400> 1

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gcacagaggt tccagggcag agtcacgatt accgcggaca aatccacgaa cacagcctac 240
atggagctga gcagcctgag atctgaggac acggccgtgt attattgtgc gaggagggac 300
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<210> 2

<211> 127

<212> PRT

<213> Homo sapiens

<400> 2

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Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Arg Tyr
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Pro Ile Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
 35          40          45
Gly Arg Ile Ile Pro Ile Leu Gly Ile Ala Asp Tyr Ala Gln Arg Phe
 50          55          60
Gln Gly Arg Val Thr Ile Thr Ala Asp Lys Ser Thr Asn Thr Ala Tyr
 65          70          75          80
Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
 85          90          95
Ala Arg Arg Asp Trp Gly Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr
100          105          110
Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala
115          120          125
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 ctctcctgca gggccagtca gagggttagc agcagcttct tagcctggta ccagcagaaa 180
 cctggccagg ctcccaggct cctcatctat ggtgcatcca gcagggccac tggcatccca 240
 gacaggttca gtggcagtggt gtctgggaca gacttcaact tcaccatcag cagactggag 300
 cctgaagatt ttgcagtgtt ttactgtcag cagtatagta gctcaccgct cactttcggc 360
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<210> 4
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<400> 4
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 Phe Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu
 35 40 45
 Ile Tyr Gly Ala Ser Ser Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser
 50 55 60
 Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu
 65 70 75 80
 Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Ser Ser Ser Pro
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 atggagctga gcagcctgag atctgaggac acggccgtgt attactgtgc gagaaaggac 300
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<400> 6
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 Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Arg Tyr

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	35		40		45										
Gly	Arg	Ile	Ile	Pro	Ile	Leu	Asp	Ile	Ala	Asp	Tyr	Ala	Gln	Lys	Phe
	50		55		60										
Gln	Asp	Arg	Val	Thr	Ile	Thr	Ala	Asp	Lys	Ser	Thr	Asn	Thr	Ala	Tyr
65			70		75									80	
Met	Glu	Leu	Ser	Ser	Leu	Arg	Ser	Glu	Asp	Thr	Ala	Val	Tyr	Tyr	Cys
			85		90									95	
Ala	Arg	Lys	Asp	Trp	Phe	Asp	Pro	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr
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	115						120					125			

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 cctggccagg ctcccaggct cctcatctat ggtgcatcca gtagggccac tggcatccca 240
 gacaggttca gtggcagtggt gtctgggaca gacttcactc tcaccatcag cagactggag 300
 cctgaagatt ttgcagtgtta ttactgtcag cagtatggta gttcaccgat caccttcggc 360
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<210> 8
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 <212> PRT
 <213> Homo sapiens

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Glu	Arg	Ala	Thr	Leu	Ser	Cys	Arg	Ala	Ser	Gln	Ser	Gly	Ser	Ser	Ser
		20					25					30			
Tyr	Leu	Ala	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Gln	Ala	Pro	Arg	Leu	Leu
	35				40						45				
Ile	Tyr	Gly	Ala	Ser	Ser	Arg	Ala	Thr	Gly	Ile	Pro	Asp	Arg	Phe	Ser
	50				55					60					
Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr	Ile	Ser	Arg	Leu	Glu
65			70		75									80	
Pro	Glu	Asp	Phe	Ala	Val	Tyr	Tyr	Cys	Gln	Gln	Tyr	Gly	Ser	Ser	Pro
			85		90								95		
Ile	Thr	Phe	Gly	Gln	Gly	Thr	Arg	Leu	Glu	Ile	Lys	Arg	Thr	Val	Ala
	100				105								110		
Ala	Pro	Ser	Val	Phe	Ile	Phe	Pro								
	115						120								

<210> 9
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gcacagaggt tccagggcag agtcacgatt accgcggaca aattcacgaa cacagcctac 240
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tggggagact actggggcca gggaaccctg gtcaccgtct cctcagcctc caccaagggc 360
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<210> 10
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<400> 10
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Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Arg Tyr
      20           25           30
Pro Ile Asn Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met
      35           40           45
Gly Arg Ile Ile Pro Ile Leu Gly Ile Ala Asp Tyr Ala Gln Arg Phe
      50           55           60
Gln Gly Arg Val Thr Ile Thr Ala Asp Lys Phe Thr Asn Thr Ala Tyr
      65           70           75           80
Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys
      85           90           95
Ala Arg Arg Asp Trp Gly Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr
      100          105          110
Val Ser Ser Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala
      115          120          125

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<210> 11
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ctctcctgca gggccagtca gagtgttagc agcagcttct tagcctggta ccagcagaaa 180
cctggccagg ctcccaggct cctcatctat ggtgcatcca gcagggccac tggcatccca 240
gacaggttca gtggcagtgg gtctgggaca gacttcactc tcaccatcag cagactggag 300
cctgaagatt ttgcagtgtg ttactgtcag cagtatatga gctcaccgct cactttcggc 360
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<210> 12
 <211> 120
 <212> PRT
 <213> Homo sapiens

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<400> 12
Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser Leu Ser Pro Gly
 1           5           10           15
Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser Val Ser Ser Ser
      20           25           30
Phe Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu
      35           40           45
Ile Tyr Gly Ala Ser Ser Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser
      50           55           60
Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu

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65					70					75				80
Pro	Glu	Asp	Phe	Ala	Val	Tyr	Tyr	Cys	Gln	Gln	Tyr	Ser	Ser	Pro
				85					90				95	
Leu	Thr	Phe	Gly	Gly	Gly	Thr	Lys	Val	Glu	Ile	Lys	Arg	Thr	Val
			100					105					110	Ala
Ala	Pro	Ser	Val	Phe	Ile	Phe	Pro							
			115				120							

<210> 13
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 gcacagaagt tccagggcag agtcacgatt accgcggaca aatccacgag cacagcctac 240
 atggagctga gcagcctgag atctgaggac acggccgtgt attactgtgc gagaaaggac 300
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<400> 14														
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Ser	Val	Lys	Val	Ser	Cys	Lys	Ala	Ser	Gly	Gly	Thr	Phe	Ser	Arg
			20				25					30		Tyr
Ile	Ile	Asn	Trp	Val	Arg	Gln	Ala	Pro	Gly	Gln	Gly	Leu	Glu	Trp
		35				40					45			Met
Gly	Arg	Ile	Ile	Pro	Ile	Leu	Gly	Val	Glu	Asn	Tyr	Ala	Gln	Lys
	50				55				60					Phe
Gln	Gly	Arg	Val	Thr	Ile	Thr	Ala	Asp	Lys	Ser	Thr	Ser	Thr	Ala
65					70				75					80
Met	Glu	Leu	Ser	Ser	Leu	Arg	Ser	Glu	Asp	Thr	Ala	Val	Tyr	Tyr
			85						90				95	Cys
Ala	Arg	Lys	Asp	Trp	Phe	Asp	Tyr	Trp	Gly	Gln	Gly	Thr	Leu	Val
			100				105					110		Thr
Val	Ser	Ser	Ala	Ser	Thr	Lys	Gly	Pro	Ser	Val	Phe	Pro	Leu	Ala
			115				120				125			

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 ctctcctgca gggccagtcg gactgttagc agctacttag cctggtacca gcagaaacct 180
 ggccaggctc ccaggctcct catctatggt gcatccagca gggccactgg catcccagac 240
 aggttcagtg gcagtggttc tgggacagac ttcactotca ccatcagcag actggagcct 300
 gaagattttg cagtgtatta ctgtcagcag tatggtagct caccgctcac tttcggcgga 360
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 <213> Homo sapiens

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 20 25 30
 Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile
 35 40 45
 Tyr Gly Ala Ser Ser Arg Ala Thr Gly Ile Pro Asp Arg Phe Ser Gly
 50 55 60
 Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu Pro
 65 70 75 80
 Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr Gly Ser Ser Pro Leu
 85 90 95
 Thr Phe Gly Gly Thr Lys Val Glu Ile Lys Arg Thr Val Ala Ala
 100 105 110
 Pro Ser Val Phe Ile Phe Pro
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 <213> Homo sapiens

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<210> 18
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 18
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 1 5 10 15
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<210> 19
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 <212> PRT
 <213> Homo sapiens

<400> 19
 Arg Asp Trp Gly Asp Tyr
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<210> 20
 <211> 12
 <212> PRT
 <213> Homo sapiens

<400> 20

Arg Ala Ser Gln Ser Val Ser Ser Ser Phe Leu Ala
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<210> 21

<211> 7

<212> PRT

<213> Homo sapiens

<400> 21

Gly Ala Ser Ser Arg Ala Thr
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<210> 22

<211> 9

<212> PRT

<213> Homo sapiens

<400> 22

Gln Gln Tyr Ser Ser Ser Pro Leu Thr
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<210> 23

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<212> PRT

<213> Homo sapiens

<400> 23

Arg Tyr Ala Ile Asn
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<212> PRT

<213> Homo sapiens

<400> 24

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1 5 10 15
Asp

<210> 25

<211> 6

<212> PRT

<213> Homo sapiens

<400> 25

Lys Asp Trp Phe Asp Pro
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<210> 26

<211> 12

<212> PRT

<213> Homo sapiens

<400> 26

Arg Ala Ser Gln Ser Gly Ser Ser Ser Tyr Leu Ala
1 5 10

<210> 27

<211> 7

<212> PRT

<213> Homo sapiens

<400> 27

Gly Ala Ser Ser Arg Ala Thr
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<210> 28

<211> 9

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<213> Homo sapiens

<400> 28

Gln Gln Tyr Gly Ser Ser Pro Ile Thr
1 5

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<400> 29

Arg Tyr Pro Ile Asn
1 5

<210> 30

<211> 17

<212> PRT

<213> Homo sapiens

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<210> 31

<211> 6

<212> PRT

<213> Homo sapiens

<400> 31

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<210> 32

<211> 12

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<400> 32
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<400> 33
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Gln Gln Tyr Ser Ser Ser Pro Leu Thr
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<210> 35
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<400> 35
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<210> 36
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<400> 36
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<210> 37
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<400> 37
Lys Asp Trp Phe Asp Tyr
1 5

<210> 38

<211> 12
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<400> 38
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<210> 39
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<212> PRT
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<400> 39
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<210> 40
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<400> 40
Gln Gln Tyr Ser Ser Ser Pro Leu Thr
1 5

<210> 41
<211> 20
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<400> 41
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<211> 20
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<400> 42
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1 5 10 15
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<210> 43
<211> 20
<212> PRT
<213> Homo sapiens

<400> 43
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1 5 10 15

Ala Gly Thr Cys
20

<210> 44
<211> 21
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1 5 10 15
Gly Cys Ala Thr Cys
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<210> 45
<211> 20
<212> PRT
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1 5 10 15
Gly Cys Thr Gly
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<210> 46
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<213> Homo sapiens

<400> 46
Ala Thr Gly Gly Ala Gly Thr Thr Thr Gly Gly Arg Cys Thr Gly Ala
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<210> 47
<211> 21
<212> PRT
<213> Homo sapiens

<400> 47
Ala Thr Gly Ala Ala Ala Cys Ala Cys Cys Thr Gly Thr Gly Gly Thr
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Thr Cys Thr Thr Cys
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<210> 48
<211> 20
<212> PRT
<213> Homo sapiens

<400> 48
Ala Thr Gly Gly Gly Gly Thr Cys Ala Ala Cys Cys Gly Cys Cys Ala
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Thr Cys Cys Thr
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<210> 49
<211> 21
<212> PRT
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<400> 49
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<210> 50
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<213> Homo sapiens

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<210> 51
<211> 20
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Gly Tyr Cys Ala Thr Cys Tyr Arg Gly Ala Thr Gly Ala Cys Cys Cys
1 5 10 15
Ala Gly Thr Cys
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<210> 52
<211> 20
<212> PRT
<213> Homo sapiens

<400> 52
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<210> 53
<211> 20
<212> PRT
<213> Homo sapiens

<400> 53
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1 5 10 15
Ala Gly Thr Cys

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<210> 54
<211> 20
<212> PRT
<213> Homo sapiens

<400> 54
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Ala Gly Thr Cys
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<210> 55
<211> 20
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<213> Homo sapiens

<400> 55
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Ala Gly Thr Cys
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<210> 56
<211> 20
<212> PRT
<213> Homo sapiens

<400> 56
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1 5 10 15
Ala Gly Thr Cys
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<210> 57
<211> 24
<212> PRT
<213> Homo sapiens

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1 5 10 15
Gly Gly Cys Thr Cys Cys Thr Gly
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<210> 58
<211> 23
<212> PRT
<213> Homo sapiens

<400> 58
Cys Cys Cys Thr Gly Cys Thr Cys Ala Gly Cys Thr Cys Cys Thr Gly
1 5 10 15
Gly Gly Gly Cys Thr Gly Cys

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<210> 59
 <211> 26
 <212> PRT
 <213> Homo sapiens

<400> 59
 Cys Cys Cys Ala Gly Cys Gly Cys Ala Gly Cys Thr Thr Cys Thr Cys
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 Thr Thr Cys Cys Thr Cys Cys Thr Gly Cys
 20 25

<210> 60
 <211> 27
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<400> 60
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 1 5 10 15
 Cys Cys Cys Ala Gly Cys Ala Cys Ala Gly Cys
 20 25

<210> 61
 <211> 20
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<400> 61
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 1 5 10 15
 Gly Ala Thr Gly
 20